(Dodecylpoly(ethyleneglycolether)_n) or 0.01 % NONIDET P40TM
(Ethylphenolpoly(ethyleneglycolether)_n).--

C2

C3

On page 5, please replace the paragraph beginning "The DNA polymerase of..." with the following new paragraph:

--The DNA polymerase of the present invention has a very high thermal stability at 95°C. It retains approximately 90 percent of its activity after incubation at 95°C for 120 minutes in the presence of stabilizer. The thermal stability is determined by preincubating the enzyme at the temperature of interest in the presence of all assay components (buffer, MgCl₂, deoxynucleotides, activated DNA and a stabilizer like 0.01 % THESITTM (Dodecylpoly(ethyleneglycolether)_n) or 0.01 % NONIDET P40TM (Ethylphenolpoly(ethyleneglycolether)_n)) except the single radioactively-labeled deoxynucleotide. At predetermined time intervals, ranging from 1-120 minutes, small aliquots are removed, and assayed for polymerase activity using one of the methods described above.--

On page 18, please replace the paragraph beginning "The active fractions were...", with the following new paragraph:

--The active fractions were pooled, dialyzed twice against 500 ml Buffer B and applied to a Fractogel TSK AF-Blue column (1x10; 7.8 ml bed volume) equilibrated with buffer B. After washing with 15 ml buffer B, the column was eluted with a linear gradient of 156 ml from 0 to 3 M NaCl in buffer B supplemented with 0.05 % THESITTM (Dodecylpoly(ethyleneglycolether)_n). The active fractions were pooled and dialyzed against the storage buffer C (20 mM Tris-HCl, pH 8.2; 10 mM 2-mercaptoethanol; 0.1 mM EDTA; 50 mM (NH₄)₂SO₄; 50 % glycerol). After adding of 0.5 % of NONIDET P40TM (Ethylphenolpoly(ethyleneglycolether)_n (v/v) and 0.5 % of THESITTM (Dodecylpoly(ethyleneglycolether)_n) (v/v) the preparation was stored at -20°C.--

Please replace the paragraph on page 19 beginning "The thermostability of the...", with the following new paragraph:

--The thermostability of the DNA polymerase from *T. gorgonarius* purified as described in Example I was determinated as follows: 5 units purified *T. gorgonarius* polymerase were incubated at 95°C in 100 μl of the following buffer: 50 mM Tris-HCl, pH